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OFFICIAL JOURNAL
OF THE
PLANT VARIETY
PROTECTION OFFICE



U.S. DEPARTMENT OF AGRICULTURE / AGRICULTURAL MARKETING SERVICE
GRAIN AND SEED DIVISION

PREFACE

The Plant Variety Protection Act (7 U.S.C. 2321 et. seq.) authorizes the Secretary of Agriculture to publish an Official Journal and to provide the public with pertinent information relating to the operations of the Plant Variety Protection Office.

The statute also authorizes the Secretary to disseminate technological and other information available to the Office that would encourage innovation and promote progress in plant breeding.

The Official Journal, which is published quarterly, includes instructions issued by the Office and related information. It will be sent free to anyone on request. Send requests to:

Plant Variety Protection Office
Grain & Seed Division, AMS
U.S. Department of Agriculture
Room 205, National Agricultural Library
Beltsville, Maryland 20705

This issue covers the period from April 1, 1977, through June 30, 1977.

CONTENTS

	Page
Applications Received.....	4
Amendments.....	4
Certificates Issued.....	5
Amended Certificates.....	11
General Information.....	12

APPLICATIONS RECEIVED

Application No.	Date	Name of applicant(s)	Name of kind	Name of variety (or designation)
7700055	4/1/77	Jacques Seed Company	soybean	J-94A
7700056	4/1/77	Jacques Seed Company	soybean	J-102A
7700057	3/28/77	Pioneer Hi-Bred International, Inc.	soybean	PX181-88A
7700058	4/11/77	Keystone Seed Company, Inc.	bean	2324
7700059	4/12/77	Asgrow Seed Company	soybean	A3585
**7700060	4/15/77	Royal Sluis	bean	Bef (3)
**7700061	4/15/77	Royal Sluis	bean	Skil (3)
7700062	4/15/77	Land O'Lakes, Inc.	soybean	Max
**7700063	4/15/77	Zwaan and De Wiljes, Ltd.	bluegrass, Kentucky ryegrass, perennial wheat	Welcome (3)
7700064	4/15/77	Mommertsteeg International, b.v.		Caravelle S77
7700065	4/20/77	(Permission to publish not rec'd.)		Gabriella
7700066	5/31/77	Asgrow Seed Company	bean	Gaelic
7700067	5/31/77	Asgrow Seed Company	bean	XP-B74
7700068	5/31/77	Asgrow Seed Company	bean	XP-C57
7700069	5/31/77	Asgrow Seed Company	pea	XP-C64
7700070	5/31/77	Asgrow Seed Company	pea	XP-C65
7700071	5/31/77	Asgrow Seed Company	pea	XP-F66
7700072	5/31/77	Asgrow Seed Company	pea	XP-F70
7700073	5/31/77	Asgrow Seed Company	pea	XP-F87
7700074	5/31/77	Asgrow Seed Company	soybean	3035
7700075	6/16/77	Lynville Seed Company	cotton	Paymaster 785 (3)
	6/28/77	ACCO Seed	cotton	Paymaster 792 (3)
**7700076	6/28/77	ACCO Seed	soybean	SL578 (3)
**7700077	6/27/77	Northrup, King and Company	bean	Plateau-Provider
**7700078	6/27/77	(Permission to publish not rec'd.)		Golden Rod
7700079	6/27/77	(Permission to publish not rec'd.)		
7700080	6/27/77			
<u>AMENDMENTS</u>				
**7500097	5/30/75	Soil Fertility Dunn's Ltd.	ryegrass, It.	Delecta (2)
7670017	9/9/76	Sacramento Valley Milling Company	clover, ladino	Sacramento (3)
**7700040	1/31/77	Chocolate Bayou Company	rice	CB 744 (3)
** To be sold by variety name only as a class of certified seed.				
() Nc. of generations of certified seed permitted beyond breeder's seed.				

CERTIFICATES ISSUED AND NOVELTY BASED ON APPLICANT'S CLAIM

Certificate No.	Issue Date	Owner	Name of Variety
**77200051	April 11, 1977	Speight Seed Farms, Inc.	Speight G-33 (3)
		tobacco	
'Speight G-33' most closely resembles 'NC 95,' however, 'Speight G-33' matures about 3 days later (62 vs. 59), grows 5 cm taller (114 vs. 109), and has leaves more rugose at maturity than 'NC 95.'			
**77200140	April 11, 1977	Speight Seed Farms, Inc.	Speight G-140(3)
		tobacco	
'Speight G-140' most closely resembles 'Coker 319,' but 'Speight G-140' matures one day later (62 vs. 61), produces one more leaf per plant (19.1 vs. 18.3), grows 5 cm taller (109 vs. 104), and has leaves that are 2.6 cm wider than 'Coker 319.'			
**7400007	April 11, 1977	Speight Seed Farms, Inc.	Speight G-15 (3)
		tobacco	
'Speight G-15' most closely resembles 'NC 95' but 'Speight G-15' forms one less leaf (17.2 vs. 18.0) and fewer ground suckers (0.5 vs. 1.2), is less resistant to black shank, and flower heads are more open than 'NC 95.'			
**7500065	April 11, 1977	Speight Seed Farms, Inc.	Speight G-23 (3)
		tobacco	
'Speight G-23' most closely resembles 'NC 95' but 'Speight G-23' matures 3 days earlier (59 vs. 62), is 8 cm shorter (96 vs. 104), produces narrower and smoother leaves (25 vs. 27.4), and carries about one less leaf per plant (16.4 vs. 17.7) than 'NC 95.'			
**7500102	April 11, 1977	Stoneville Pedigreed Seed Company	cotton
			Stoneville 256(3)
'Stoneville 256' most closely resembles 'Stoneville 7A' but 'Stoneville 256' has wider leaves (15.7 vs. 14.7 cm).			
**7600048	April 11, 1977	Stoneville Pedigreed Seed Company	cotton
			Stoneville 731N(3)
'Stoneville 731N' most closely resembles 'Stoneville 7A' but 'Stoneville 731N' is nectariless.			

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CERTIFICATES ISSUED AND NOVELTY BASED ON APPLICANT'S CLAIM

Certificate No.	Issue Date	Owner	Name of Kind	Name of Variety
7600062	April 11, 1977	Gallatin Valley Seed Company	pea	Sugar Snap
		'Sugar Snap' most closely resembles 'Mammoth Melting Sugar' but differs in that 'Sugar Snap' has cotyledons that are green and wrinkled while those of 'Mammoth Melting Sugar' are yellow and smooth.		
7700002	April 11, 1977	Pioneer Hi-Bred International, Inc.	soybean	118-11
		'118-11' is most similar to 'B 186.' However, '118-11' is shorter in plant height than 'B 186' by an average of 11 cm.		
**7700004	April 11, 1977	Western Plant Breeders	barley	Reliance (3)
		'Reliance' is most similar to 'CM 67' but differs in that 'Reliance' flowers and matures an average of 5 days later, is 15 cm shorter and has stronger straw which is more resistant to lodging than 'CM 67.' 'Reliance' has brownish thin hulls and dark blue aleurone color while 'CM 67' has white hulls and white aleurone color.		
7700009	April 11, 1977	Asgrow Seed Company	pea	Frisky
		'Frisky' most closely resembles 'Abador' but differs in that 'Frisky' flowers 7 days earlier and reaches TDR 95 approximately 5 days earlier than 'Abador.'		
7700014	April 11, 1977	Asgrow Seed Company	pea	Sybo
		'Sybo' most closely resembles 'Nugget' but 'Sybo' is susceptible to Fusarium wilt race 1 while 'Nugget' is resistant to Fusarium wilt race 1.		
7600030	May 9, 1977	General Foods Corporation	pea	Lehi
		'Lehi' most closely resembles 'Ivy'; however, at 95-100 TDR the seeds of 'Lehi' are Green 141B on the Royal Horticultural Society Colour Chart and the plants are erect. At the same maturity stage the seeds of 'Ivy' are Green 143A and the plants are prostrate.		
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CERTIFICATES ISSUED AND NOVELTY BASED ON APPLICANT'S CLAIM

<u>Certificate No.</u>	<u>Issue Date</u>	<u>Owner</u>	<u>Name of Kind</u>	<u>Name of Variety</u>
7600071	May 9, 1977	W. Atlee Burpee Company	pumpkin	Triple Treat
				'Triple Treat' is most similar to 'Lady Godiva' and 'Small Sugar.' 'Triple Treat' fruit is orange (orange group 28A - R.H.S. Colour Chart); whereas, 'Lady Godiva', fruit is green-yellow striped (green group 133A; yellow-green group 151A - R.H.S. Colour Chart). Both 'Triple Treat' and 'Lady Godiva' have seeds without testae.
76TQ001	May 9, 1977	Ben Fish and Son	lima bean	C-elite
				'C-elite' most closely resembles 'Mendoza Bush' but 'C-elite' has straight pods and spurs, light green leaves and is resistant to downy mildew races A, B and C; whereas, 'Mendoza Bush' has curved pods and spurs, dark green leaves and is susceptible to downy mildew.
**77TQ002	May 9, 1977	Nebraska Agricultural Experiment Station	wheat	Lancota (3)
				'Lancota' is most similar to 'Lancer.' 'Lancota' differs from 'Lancer' in being moderately resistant to leaf rust, and having larger kernels (30 vs. 27 gms/1,000); whereas, 'Lancer' is susceptible to leaf rust.
**7700003	May 9, 1977	Western Plant Breeders	barley	Gus (3)
				'Gus' is most similar to 'Reliance' but differs by having a prostrate seedling growth habit, dark bluish-green leaves, strap-shaped heads, light blue aleurone color and yellow hulls; whereas, 'Reliance' has a semi-prostrate seedling growth habit, narrower light green leaves, a club-shaped head, dark blue aleurone color and brown hulls.
7700006	May 9, 1977	Asgrow Seed Company	soybean	A2444
				'A2444' most closely resembles 'Amsoy 71.' 'A2444' has white flowers; whereas, 'Amsoy 71' has purple flowers.

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CERTIFICATES ISSUED AND NOVELTY BASED ON APPLICANT'S CLAIM

Certificate No.	Issue Date	Owner	Name of Kind	Name of Variety
7700010	May 9, 1977	Asgrow Seed Company	pea	Kriter
				'Kriter' most closely resembles 'Rally' but differs in that 'Kriter' has smooth seed while 'Rally' has wrinkled seed.
7700034	May 9, 1977	Asgrow Seed Company	soybean	A2575
				'A2575' most closely resembles 'Amsoy 71' and 'Wells.' Hilum color for 'A2575' is buff; whereas, the hilum color is yellow for 'Amsoy 71' and imperfect black for 'Wells.' Seed protein peroxidase levels are high for 'A2575' and 'Amsoy 71' but low for 'Wells.'
7600052	May 16, 1977	Keystone Seed Company	lettuce	Chaparral
				'Chaparral' most closely resembles 'Merit' but 'Chaparral' differs by being resistant to downy mildew, race 5, while 'Merit' is not.
**TQ76003	May 16, 1977	Terrall-Norris Seed Co., Inc.	soybean	Terra Vig 708 (3)
				'Terra Vig 708' is most similar to 'Coker 338.' 'Terra Vig 708' has a shiny seed coat and is in maturity group VII; whereas, 'Coker 338' has a dull seed coat and is in maturity group VIII.
**76TQ019	May 16, 1977	World Seeds, Inc.	wheat	W.S. 25 (3)
				'W.S. 25' is most similar to 'Profit 75' spring wheat, but 'W.S. 25' has shorter beaks and awns than 'Profit 75.'
**7600074	May 16, 1977	Funk Seeds International	soybean	Beechwood (3)
				'Beechwood' most closely resembles 'Altona' except (1) 'Beechwood' is 5 days later in maturity and (2) 'Beechwood' plants are 13 cm taller than 'Altona.'

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CERTIFICATES ISSUED AND NOVELTY BASED ON APPLICANT'S CLAIM

Certificate No.	Issue Date	Owner	Name of Kind	Name of Variety
7700020	May 16, 1977	Asgrow Seed Company	pea	Mini 93
**7700029	May 16, 1977	Colorado Agricultural Experiment Station	wheat	Vona (3)
				'Vona' is most similar to 'Lindon,' however, 'Vona' is three inches shorter, two days earlier and has stronger straw than 'Lindon' when compared under irrigation in Colorado.
**7700031	May 16, 1977	Purdue University Agricultural Experiment Station and A.R.S., U.S.D.A.	wheat	Beau (3)
				'Beau' is most similar to 'Arthur' soft red winter wheat. 'Beau' has an erect flag leaf and is resistant to the eight races of Hessian fly. 'Arthur' does not have an erect flag leaf and lacks resistance to races B, D, E and G of Hessian fly.
**7200085	May 31, 1977	Rhode Island Agriculture Experiment Station, University of Rhode Island	chewings fescue	Jamestown (2)
				'Jamestown' most closely resembles 'Highlight' but 'Jamestown' has a darker leaf color (8.0 vs 4.0, 9=dark green and 1=light green) and 'Jamestown' produces fewer tillers (62.6 vs 125.4) 14 weeks after seeding than does 'Highlight.' At 12 weeks after seeding the leaf blades of 'Jamestown' are broader than those of 'Highlight' (1.68 mm vs 1.45 mm, 25 mm from sheath).
7200106	May 31, 1977	John A. Howden	pumpkin	Howden
				'Howden' is most similar to 'Connecticut Field.' 'Howden' fruits have a much darker orange color at maturity. (Royal Hort. Soc. Colour Chart readings Indian Orange No. 713/1 vs Yellow Ochre No. 07 to 07/1).
**7600051	June 7, 1977	Seed Research Associates, Inc.	wheat	5232 (2)
				'5221' is the variety most similar to '5232' but '5232' flag leaf angle is 35-45° at dough stage and '5221' flag leaf is horizontal at dough stage.
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CERTIFICATES ISSUED AND NOVELTY BASED ON APPLICANT'S CLAIM

Certificate No.	Issue Date	Owner	Name of Kind	Name of Variety
7600055	June 7, 1977	Keystone Seed Company	Lettuce	Mesaverde
				Mesaverde
'Mesaverde'	most closely resembles 'Great Lakes 659' but 'Mesaverde' differs by being resistant to downy mildew race 5 while 'Great Lakes 659' is not resistant to downy mildew race 5.			
7700022	June 7, 1977	Pure Line Seeds, Inc.	pea	Banff
				Banff
'Banff'	most closely resembles 'Sprite'; however, 'Banff' has a vine height of 58 cm and sets 70-90% double pods; whereas, 'Sprite' has a vine height of 53 cm and sets 0-10% double pods.			
7700023	June 7, 1977	Pure Line Seeds, Inc.	pea	Kodiak
				Kodiak
'Kodiak'	most closely resembles 'Dark Skin Perfection' but 'Kodiak' reaches 100 TDR 1-2 days earlier, produces the 1st bloom on the 14th node and has a vine height of 68 cm; whereas, 'Dark Skin Perfection' produces the 1st bloom on the 15th node and has a vine height of 76 cm. 'Kodiak' is resistant to pea enation mosaic and tolerant to powdery mildew and western streak. 'Dark Skin Perfection' is susceptible to each of these diseases.			
**7700030	June 14, 1977	Purdue University Agricultural Experiment Station, and USDA, ARS	wheat	Key (3)
				Key (3)
'Key'	is most similar to 'Atlas 66' and 'Atlas 50.'	'Key' has brown glumes; whereas, 'Atlas 66' and 'Atlas 50' have white glumes.		
**7700048	June 14, 1977	Purdue University Agricultural Experiment Station and USDA, ARS	wheat	Downy (3)
				Downy (3)
'Downy'	most closely resembles 'Arthur' except 'Downy'	'Downy' has pubescent leaves (110 hairs/mm ²); whereas, 'Arthur' has sparsely pubescent leaves (40 hairs/mm ²).		
**7700052	June 14, 1977	Purdue University Agricultural Experiment Station, and USDA, ARS	wheat	Sullivan (3)
				Sullivan (3)
'Sullivan'	is most similar to 'Oasis' soft red winter wheat. 'Sullivan' is two days earlier than 'Oasis' to date of heading.			
				'Oasis' is susceptible.
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<u>Certificate No.</u>	<u>Issue Date</u>	<u>Owner</u>	<u>Name of Kind</u>	<u>Name of Variety</u>
7700059	June 14, 1977	Asgrow Seed Company	soybean	A 3585

'A 3585' is most similar to 'Williams'; however, 'Williams' has white flowers; whereas, 'A 3585' has purple flowers.

AMENDED CERTIFICATES

7700044	May 14, 1976	Crites-Moscow Growers, Inc.	pea	Swinger
7200136	Nov. 15, 1974	FMC Corporation	watermelon	Charleston 76

This certificate does not specify certified seed only.

'Charleston 76' most closely resembles 'Charleston Grey' but has more blocky, less tapering fruit with a higher length-diameter ratio of 2.22 compared with 2.02 for 'Charleston Grey'. 'Charleston 76' seeds weigh 11 g/100 and black mottling covers 22% of the seed coat; whereas, 'Charleston Grey' seeds weight 13 g/100 and black mottling covers 35% of the seed coat.

United States Department of Agriculture
Agricultural Marketing Service
Grain and Seed Division
Plant Variety Protection Office, Rm. 301
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Beltsville, Maryland 20705

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General Information

PVPO Progress Report as of June 1, 1977

Total applications received - 748
(461 agricultural, 210 vegetable, 77 flower)

Applications received FY 77 - 74 (Oct. 1-June 1)

Total applications withdrawn, ineligible, or abandoned -
157

Total certificates issued - 412
(228 agricultural, 138 vegetable, 46 flower)

Certificates issued FY 1977 - 93 (Oct. 1 - June 1)

Applications pending -	179
Certificate stage -	22
Searching stage -	81
Time extended -	31
Holding for action -	45
	179